Pseudo Code Exercises

# **Introduction:**

*This lab introduces you to the creation of Pseudocode. To deepen your understanding of Python you are required to attempt all activities and questions presented within this Lab.*

# **Activity 1 – Task list**

**Create a task list for each of these problems. Use the following as a base:**

* **Start program**
* **Example action 1**
* **Example action 2**
* **Stop program**

1. When the program is run, output a greeting message to the user. Replace … with your words.

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| * **Start program** * … * **Stop** **program** |

1. When the program is run take the name of a user and then display a greeting message with their name included. Replace … with your words.

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| * **…** * Ask for name of user * … * **Stop** **program** |

1. When the program is run take input from the user of a numerical value and use it to calculate the area of a circle (**hint:** you can google the equation). Replace … with your words.

a = area, r = radius, π is approx.. 3.14

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| * … * Ask … * Output … * Stop program |

# **Activity 2 – Pseudocode**

**Based on the task lists you created in Activity 1, create pseudocode for each of the task lists.**

1. When the program is run, output a greeting message to the user. Replace … with your words, use “WRITE” to output your message.

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| * START   …   * STOP |

1. When the program is run take the name of a user and then display a greeting message with their name included. Replace … with your words.

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| * START   WRITE “Please enter your name”  READ …  …   * STOP |

1. When the program is run take input from the user of a numerical value and use it to calculate the area of a circle (**hint:** you can google the equation).



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| * START   READ  …  …   * … |

# **Activity 3 – Reflection**

**Provide written responses to the questions below. Answers to these questions can be located in the corresponding topic presentation for this session.**

* 1. Explain why you would create pseudocode for scripts before writing code.

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* 1. Detail the advantages and disadvantages of using Pseudocode

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* 1. Detail the five rules of Pseudocode and discuss why these are important.

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* 1. Should a standard exist for Pseudocode? Why/Why Not?

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